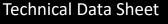


FLAME RETARDANT

with award winning technologies for sustainability





Breakthrough Innovations in Thermal Insulation

Date issued: 2022 02 21

APPLICATIONS (TYPICAL)

Apparel, Gloves, Footwear, Home-textiles, etc., intended for accidental and momentary exposure to excessive heat, flames or electric arc.

* Important notes: The intended use of the FR-MX does not include Firefighting operations or any other applications where a prolonged and planned exposure to excessive heat, flames or electric arc is expected

PERFORMANCE FEATURES

Flame retardant - Refer to Page 2 for more technical details

Proprietary LRTD[™] (Long Range Thermal Dynamics) Technology for optimum warmth

Water resistant / Moisture management

Resistance to cold air and warm air retention

Light weight

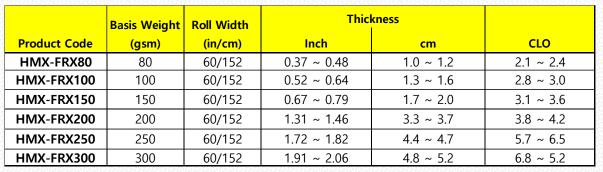
Warm even when damp

Easy maintenance (Home wash, etc)



FIBER COMPOSITION

100% Polyester



TECHNICAL DATA (TYPICAL VALUES)

* All data presented above may vary. Contact your sales representative for more details.

** Custom weights, e.g., <80gsm or >300gsm, available up on request. Ask your sales representative for more

details TEST METHODS:

Thickness: ASTM D 5736 @ 0.002 psi, CLO: ISO11092:2014, WVTR: ASTM E96/E96M-16

CONSTRUCTION GUIDELINES

FR MX Insulation products may be free-hung in edge-stabilized construction. Maximum distance between stitched lines may vary depending on various factors such as types of shell & lining fabrics, stitching density, etc. Please ask the sales representative of HEAT-MX[™] in your region to find out more. Quilting and/or adhesive lamination methods may be used for as needed. For any use of the products outside conventional construction methods and/or in combination of unusual material practiced and recognized by the industry, please consult the sales representative of HEAT-MX[™] products in your region. Avoid high temperature or high pressure in the course of manufacturing to attain optimum performance.

CARE INSTRUCTIONS

GOODS made with HEAT-MX[™] insulation material may be home laundered and/or dry cleaned. Follow care instructions provided by the manufacturer or brand of the finished goods.



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FLAMMABILITY RELATED INFORMATION

Important notes: The intended use of the HEAT-MX[™] Flame Retardant (FR MX) product is a thermal insulation sandwiched between other fabric components which also provide anti-flammability properties for finished goods such as apparel, gloves, footwear, home textiles, etc., as described in the Typical Application section of the Page 1. The flame retardant properties of HEAT-MX[™] FR MX, presented in this document, do not represent the anti-flammability properties of the finished goods. Therefore, manufacturers or brands responsible for the finished goods must verify the anti-flammability properties according to the requirements imposed on the finished goods.

ASTM D6413/D6413M-13b Vertical Method*

Length direction		Width direction	
After-flame time	0.0s	After-flame time	0.0s
After-glow time	1.2s	After-glow time	1.5s
Damaged length	12mm	Damaged length	12mm
Occurrence of dripping or melting	NO		

ISO 6941:2003, Procedure A, Surface ignition*

Length direction		Width direction		
Duration of flaming	0s	Duration of flaming	0s	
Duration of afterglow	0s	Duration of afterglow	0s	
Damaged length	0mm	Damaged length	0mm	
The time in seconds from the start of the application of the test flame until the severance of the lower (first) marker thread (s)				
The time in seconds from the start of the application of the test flame until the severance of the middle (second) marker thread (s)				
The time in seconds from the start of the application of the test flame until the severance of the upper (third) marker thread (s)				

BS 5852:Part 2:1982, Schedule 2, Part 2*

Time to extinction after remo	oval of the burner	Maximal extent of damage of te	est component
Flames (sec)	0s	Width direction	21 ~ 22mm
Smoke (sec)	5 ~ 7s	Length direction	43 ~ 46mm
		Depth	Full thickness

Rating: #1, Pass, the sample was not ignited after removal of the burner

* Test results may vary from sample to sample while the FR MX is designed and engineered to satisfy the requirements of the standards listed above

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PRODUCT USAGE EXAMPLES*





Note - Some performance features are specific to a certain product type (product code) and optional. Please contact your sales representative for more details

* Product Usage Guidelines are based on entire area applications of HEAT-MX™ products unless otherwise expressed as per Footwear examples, but may vary depending on specific applications. Contact your sales representative for the approval in case of exceptions from the application methods indicated in this document.

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